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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	GSB	SIEVE ANALYSIS	One Test		1	1
2	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
3	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
4	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
5	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
6	TACK COAT	Rate of spread	One Test		1	1

A.E.E

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-04-24-28** **Date: 26-12-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division. BBMP. Bangalore.
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-12-22
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	24-12-22
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements

Note:-

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2023-04-24-28 **Date: 02-01-23**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division

Agency : Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer Reference : BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-12-22

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 30-12-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2023-04-24-28** **Date: 09-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-01-23
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	07-01-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	Min 45mm
2	Softening Point, °C	**51.2**	Min. 47°C
3	Ductility, cm	**98**	Min. 40cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**272**	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2023-04-24-28	**Date: 16-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division	
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-01-23	
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)	
Date of Test	:	13-01-23	
Weight of Sample	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-24-28** **Date: 16-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-23
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	13-01-23

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-RW-2023-04-24-28 Date: 29-01-23

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479.5

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	47	47	9.8	90.2	71-95
13.2	55	102	21.3	78.7	56-80
4.75	190	292	60.9	39.1	38-54
2.36	45	337	70.3	29.7	28-42
0.3	50	387	80.7	19.3	7-21
0.075	60	447	93.2	6.8	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	48	48	10.0	90.0	71-95
13.2	56	104	21.7	78.3	56-80
4.75	180	284	59.3	40.7	38-54
2.36	50	334	69.7	30.3	28-42
0.3	49	383	80.0	20.0	7-21
0.075	59	442	92.3	7.7	2-8

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2023-04-24-28	**Date: 23-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division	
Agency	:	Sri. Sambashiva, No.04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-01-23	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of Test	:	21-01-23	
Oven Dry Weight	:	5000	Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-24-28** **Date: 24-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-23
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	21-01-23

Type of Binder	:	60/70
% of Binder Used	:	5.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.8 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2023-04-24-28 **Date: 31-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	30-01-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	30-01-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.50	5.40
7	Average percentage	%	5.45	

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Lab ID : CP-RW-2023-04-24-28 Date: 31-01-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.1	43.9	42-58
1.18	29	295	62.2	37.8	34-48
0.6	11	306	64.5	35.5	26-38
0.3	46	352	74.2	25.8	18-28
0.15	45	397	83.7	16.3	12-20
0.075	55	452	95.3	4.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.0	44.0	42-58
1.18	29	295	62.1	37.9	34-48
0.6	11	306	64.4	35.6	26-38
0.3	46	352	74.1	25.9	18-28
0.15	45	397	83.6	16.4	12-20
0.075	55	452	95.2	4.8	4-10

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

A.E.E

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-04-24-28** **Date: 31-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to Prakruthi Layout at Kenchenahalli in Chowdeshwari Ward No-02 of Yelahanka Sub Division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-23
Type of Mix	:	Tack coat
Date of Test	:	30-01-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
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End of Report

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